



New Honeywell E-10 Autopilot helps fly the F-100 Super Sabre

THE extremely high performance characteristics of North American's new F-100 Super Sabre-plus the precise missions it will be required to fly - demand an entirely new high performance flight

Honeywell is proud that its new E-10 control system. Autopilot was selected to help fly the autopilot equipped Super Sabres.

Here are some features of the E-10 which make it an outstanding flight con-

Mission matching adaptability to a wide trol system: variety of command signals-fire control, blind landing, cruise control, radio navi-

Extremely rapid response of hydraulic gation. servos.

Fully coordinated three axes stabiliza-Constant mach control in dive, climb or

emise.

Complete air speed compensation providing uniform response at all air speeds. Control stick steering. All-attitude maneuverability.

Components that make up the E-10 can be combined into highly effective control systems for dive bombing, interception, level bombing or normal cruise control for any high performance aircraft.

The new E-10 Jet Autopilot is another new development from Honeywell. There'll be more, for automatic control is so important to aviation's progress, And automatic control is Honeywell's business.

Honeywell

H Geronautical Controls

2600 Ridgway Road, Minneapolis 13, Minnesota





How we keep a flying LST's nose out of trouble

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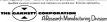
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Now...stick-feel for jets at half in the weight!

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viously attained.

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ANALIGN WEEK, February 7, 1985



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AVIATION WEEK WOLD IN

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Bell Official Becomes Chairman of AF Bound Dr. Merver I. Kelly at the new charachemina of NATO's advisory scoop on

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Care Manadestoring Co., Herrigad, David Bogen Co., New York, com

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Props Fail to Reverse On 2 Landing DC-7s Prooffee on two United Air Lines

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Bell Jet VTO Takes Off and Lands Level

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USAF Gives Army Arctic Mobility

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Aviation Procurement Obligations

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News Sidelights

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AVIATION WEIG Primary 7, 1909

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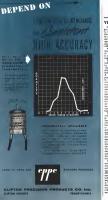












LETTERS

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DON WEIX, February 7, 15



AERONAUTICAL ENGINEERING



Scientific Detection Helps . . .

RAE Engineers Solve Comet Mystery



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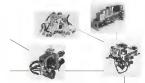


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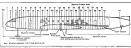
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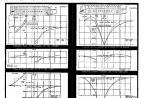
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Millelle New Secret



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In the near feture designon about be able to confer the educates of new still in the drawing board or broad board stores. M. M. Tall told the Country and Relighble in Electronics ender Balling sponsoring, indicates that made long which Vote is develop-► Bevotes Finding-You'ris of 15 types of shipbened state, communica-

• 155 at the experies applications screent for about 50% of the expector was not 100 acamemous The fact The industry that community or shifts could be profy improved mently by preventing or controlly the component and on sensal equipment cause of father of a relatively few publishes. ► Number of components ► Number, Not Egypthine—The Vandata who provides constrained tradeport One Suppositive tree suffered 15. is different positions of the economical times more features than a telebrate element and how the transition select 10 trace more fallery

PAILURE BATE of 15 electronic programmy plotted around number of community and referen a direct relationship, yet above other factor influence principles Radid lines see denses through the However, the fact that all equip rodar repeater D has rearrily the same Daging Deeper-Father analysis of construent, there is considerable

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Cettion Pulser Rates-The more sale which the adoption one course. · One tonomitte model referred a high rate of 2.58 follows per openting hours, printerly be-2039 takes If this one sauce is on only 1-92 flakers per 1,000 hours, wakent it specialists in reliability to

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ANUATION WEIK, February 7, 1995



National Seamless Tubes "back-up the blast" of Navy Jet's guns

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Previously, the 114" OD x 114" ID pun blest tabes were machined from bur stack. Notional Semilers Tub-

ing, however, pierced from solid ballets of USS Stainless



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ANIATION WEEK, Pelinny 7, 1985

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evening entirety protects for guided rate. He'ld as 2.8"—temperature of avenue, no prior that strugger stard contra one no.

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Seeme of the success of their light and small H-D smits UAPs today cons, today this mainers Funk Cu-Count is looking was the dearhibty of other bands, exhibitor one *Expending Applications-Edward L. runnic receions and water, skethol, aladd the community currenture year inhoverity ISD cooling equipment concernor the vice and melely of a standard best exchanger five or six Plate Soften-Apoller new decision. caseded to the evaporative cooling princials to workers a still many efficient tenu perionsh the connery had no tur of which is espeeding rate serend Among Verter's spellenten of HSD controls into complete restoranimeroration cooling our new? ex-

Among sexually second-union UAF developed systems are the Boerry B 52, Forelidd C 1218. Germann AAAA

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plant with a one-track mind. other products. Here's why this is important, it means your exfrare exception are bulk by experienced sixcraft specialists . . . gren who know no other So if you have no assembly you're thinking of subcommunes, soll in CH COMPANY Division surraso N.Z. COLUMN CONTRACTO OF



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Speeding blind fastening for electronic eyes

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> Brandt Aleven Fight 152 of Aug 22, 1974, was a daily adaptated fight between Marcobis, Term, and Macroscots, Mana-

Waterloo and Mason City, Sons, Austin

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Storm Area Trap for Braniff DC-3

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CAB's 2-1 Vote Dims Nonsked's Hopes

· Split Board says compliance ruling should precede decision on North American N. Y.-Chicago route plea-

· Josh Lee's dissent hits at lone delays in processing route case, but does not support earrier's application.

It is understood that CAS recover Aftern withdraw from perhapsion in leses to not a decrease in the New Yorkwas a clearest monophy decision. The No Second Description Needs weary refrance celes to due the eaten, the Board found that more dep-

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As a prince for the study of this debate and the web long at well try to settle, we recommend analise two articles sublished to aspent works by steen framer USAF officers now in cooling payments. They are February store of An Prove manager "Tedal" Walkenery is a former IRAE heaternest colonel near a consultant to Laurence Rockefeller and at well known to . "No Need to Bond Cates to We War" by Richard S Laghorn in U.S News and World Report's range of Fen. 28. Leghorn p a colone) in USAF Bezone, non a

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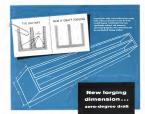
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It has always been the aim of General Motors to supply America with the most efficient and dependable motive power for all types of transportation.

In motor vehicles, in locomotives and in many types of work and pleasure hoats, GM gasoline and Diesel engines have long enjoyed the confidence of millions of people who depend upon them in their daily travels.

Now General Motors is introducing to commercial aviation a new American-designed power plant and propeller which promise the same long step forward in passenger travel by air that GM has provided in other forms of mass transportation.

This new power plant is the Model 501 Turbo-Propengine with matched Aeroproducts propeller, both produced by our Allison Division.

Behind each of them stand thousands of hours of military experience which has advanced engine and propeller development to a point of readiness for the passenger-flying public. This is a classic example of the benefits to the nation and the public which result from close cooperation between the

Armed Forces and American industry. Turbo-Prop power means a gas turbine engine similar to a jet, but with its tremendous power harnessed to turn a propeller.

The big advantage of the Turbo-Prop engine is that it uses less fuel than a jet, yet it enables aircraft to travel faster with greater payload than any other propeller-type engine.

The Allison Model 501 is the most efficient Turbo-Prop engine for its size and weight ever built in this country or abroad It delivers more power than piston engines of twice its weight.

It incorporates all the knowledge that Allison has gained in building gas turbine engines that have flown more than five million hours—more flight experience than has been accumulated by any other turbine engine manufacturer - experience in the air where it counts most.

The military versions of the Allison Turbo-Prop already power eight different types of Navy and Air Force aircraft, including the new Vertical Take-Off Interceptors.

Now being readied for commercial use, the Allison Turbo-Prop will enable America's airlines to carry heavier payloads, maintain faster schedules, use shorter runways, and to offer passengers a far smoother, quieter, more comfortable ride.

While this Allison Model 501 engine can be installed in today's airplanes, the aircraft industry is busy designing new airframes to take fullest advantage of its performance.

General Motors is proud that its wide experience in engine design is paying off in this important contribution to the progress of American-built-andpowered aircraft for both military and commercial service.

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